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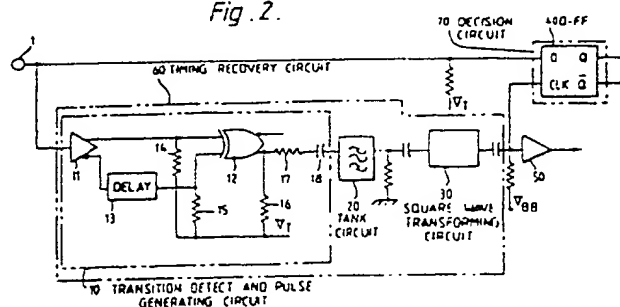
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(54) Digital signal regenerator.

(57) A digital signal regenerator responsive to a data bit stream (1) having a predetermined bit rate for generating a retimed data bit stream includes a transition detector and a pulse generator (10) responsive to the data bit stream for detecting transition positions between two different states of the data bit stream and for generating width variable pulses at the transition positions, a filter (20) responsive to the width variable pulses for extracting a timing wave of the data bit stream, a clock pulse generator (30) responsive to the timing wave for generating a clock pulse sequence, and a discriminator (40) responsive to the clock pulse sequence for discriminating the levels "1" and "0" of the data bit sequence to generate the retimed data bit stream.

Fig. 2.



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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	GB-A-2176376 (RCA CORPORATION) * page 2, left-hand column, line 43 - page 2, right-hand column, line 133; figure 1 *	1, 3, 5	H04L7/02
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X	IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, ICC'82, 13-17 June 1982; Vol. 1 of 3; IEEE New York US; Pages 2E.6.1 - 2E.6.5; R. Clewer: "Design Considerations for Intelsat V TDMA Modems" *Figure 5; Page 2E.6.5, Right-hand column, Paragraph 1*	1, 3, 5	
A	---	2, 4	
X	PATENT ABSTRACTS OF JAPAN vol. 5, no. 137 (E-72)(809) 29 August 1981, & JP-A-56 71350 (NIPPON DENKI K.K.) 13 June 1981, * the whole document *	1, 4, 5	
A	-----	3	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H04L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 15 MAY 1990	Examiner SCRIVEN P.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</div> <div>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons & : member of the same patent family, corresponding document</div>			